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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/026,302	10/026,302 12/19/2001		Vladimir V. Martin	2086	8077
23358	7590	08/19/2003			
KOREN ANDERSON				EXAMINER	
MOLECULAR PROBES, INC. 29851 WILLOW CREEK ROAD EUGENE, OR 97402-9132				KIFLE, I	BRUCK
EUGENE, C	JR 9/402	-9132		ART UNIT PAPER NUMBER	
				1624	
				DATE MAILED: 08/19/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)					
	10/026,302	MARTIN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Bruck Kifle, Ph.D.	1624					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠ Responsive to communication(s) filed on <u>16 J</u>	lune 2003 .						
	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
Claim(s) <u>1-51</u> is/are pending in the application.							
4a) Of the above claim(s) 21-41 and 44-51 is/ar	4a) Of the above claim(s) 21-41 and 44-51 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-21,42 and 43</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	` '					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1.☐ Certified copies of the priority documents have been received.							
Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 54	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)					

Application/Control Number: 10/026,302

Art Unit: 1624

Election/Restrictions

Applicant's election of compound 138 on pages 56-57 in Paper No. 10 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

The elected compound was not found in the search as is allowable. The search was expanded to embrace the core

Thus, compounds of this scope of the core identified above along with the definitions of the variables have been examined. Claims 21-41 and 44-51 are withdrawn from consideration because they are drawn to methods and kits that raise different issues of patentability and require separate searches.

Improper Markush Rejection

Claims 1-21 are rejected under a judicially created doctrine as being drawn to an improper Markush group, that is, the claims lack unity of invention. The variables E¹, E², E³, Y, P and Q are defined in such a way that they keep changing the core of the compound that determines the classification. By changing these values, several patentably distinct and independent compounds are claimed. In order to have unity of invention the compounds must have "a community of chemical or physical characteristics" which justify their inclusion in a common group, and that such inclusion is not repugnant to principles of scientific classification"

Application/Control Number: 10/026,302

Art Unit: 1624

In re JONES (CCPA) 74 USPQ 149 (see footnote 2). The structural formula of the compound of claim 1 does not have a significant structural feature that is shared by all of its alternatives which is inventive. The structure has only two benzene rings as common. This feature is not inventive. Compounds embraced by these claims are so diverse in nature that a prior art anticipating a claim with respect to one member under 35 USC 102 would not render obvious the same claim under 35 USC 103. This is evidentiary of patentably distinct and independent inventions.

Limiting the claims to the group identified above as searched would overcome this rejection.

Claim Rejections - 35 USC § 112

Claims 1-21, 42 and 43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- i) The term "heteroaryl" is indefinite because it is not known how many atoms are present, how many and what kind of heteroatoms are involved, what size ring is intended and how many rings are present.
- ii) The group "DYE" is defined as "a chemical moiety with an absorption maximum beyond 320 nm". One skilled in the art cannot say which chemical moiety has an absorption maximum beyond 320 nm without taking the billions of chemical moieties known and testing each. Thus, this group is open-ended.
- iii) It is unclear what "a biologically compatible esterifying group" or "a biologically compatible salt" is.

Page 3

Application/Control Number: 10/026,302

Art Unit: 1624

Page 4

iv) The groups at R_{X} are unclear. These groups are not radicals but compounds or classes of

compounds. Appropriate correction is required. Also, language such as "a reactive group

selected from the group consisting of" in place of "that is" is suggested.

v) The metes and bounds of S_c as "a conjugated substance" is unclear.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bruck Kifle, Ph.D. whose telephone number is 703-305-4484.

The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mukund J. Shah can be reached on 703-308-4716. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

Bruck Kifle, Ph.D. Primary Examiner Art Unit 1624

BK

August 15, 2003